Environmental Technology for the Industry:

- Exhaust Air Treatment
  - Volatile Organic Compounds (COV), NOx, HCl, SOx

- Industrial Waste Incineration
  - Solid & Liquid Waste, Sludge, Hazardous, NORM, Medical, etc.

Milestones & History

- 2005 - Founded in Barcelona, Spain
- 2006 - First international customer
- 2010 - International expansion commenced
- 2011 - Moved to larger facilities
- 2012 - 70% revenue increase in comparison to 2011
- 2013 - Opening of Sales Office in Moscow, Russia
- 2014 - Opening of Sales Office in Santiago, Chile
- 2016 - Opening of Production Facilities in China
- 2017 - Commercial expansion in Middle East
- 2018 - Moved to larger facilities

Complete Project Management, including:
Engineering & Design | Production | Installation | Commissioning | Maintenance Service
**Exhaust Air Treatment**

- Regenerative Thermal Oxidizer (RTO)
- Adsorption systems (Zeolite Rotor-concentrator)
- Thermal Oxidizers (TO)
- Active Carbon Filters
- DeNOx systems:
  - Selective Catalytic Reduction (SCR)
  - Selective Non-Catalytic Reduction (SNCR)
- Heat Recovery systems
- Wet scrubbers
- Venturi-scrubbers
- Bio-filters
- Energy Efficiency systems
- Gas coolers
- Particle separators
- Ventilation Air Methane (VAM) for Mines

**Industrial Waste Incineration**

- Static Incinerators
- Rotary Incinerators
- Incineration Systems and Plants for:
  - Solid & Liquid Waste
  - Hazardous Waste
  - NORM Waste
  - Refining Residues
  - Waste Water Plant
  - Sludge
  - Etc.
**Our Offices:** Barcelona | Shanghai | Moscow | Santiago de Chile

**Our Projects:**

Argentina | Czech Republic | France | Germany | Hungary | Indonesia | Iran | Kuwait | Portugal | Russia | Spain | Slovenia | Thailand
The Netherlands | Turkey | United Arab Emirates | United Kingdom | KSA | Panama | China
Exhaust Air Treatment
Exhaust Air Treatment

VOC emissions are currently issued into the atmosphere in a large number of production processes that use organic substances. Current EU and national legislations establish maximum VOC emission limits for the various production processes affected.

Technologies to eliminate VOCs & Odours:

- Oxidizers
- Adsorption Asystems
- DeNOx Systems
- Filters
- Scrubbers
- Energy Efficiency Systems

A Global Problem:

VOC emissions are one of the biggest environmental problems for many Industries nowadays.

Global warming generated by VOC emissions is 12 times higher than that produced by CO2.
Applications & Processes:

- Painting & spraying booths
- Industrial Finishing
- Coating Processes
- Chemical Processes
- Plastic & Rubber Production
- Pharmaceutical Processes
- Waste water pound vapours & gases

INDUSTRIES:
Chemical | Petrochemical | Automotive
Pharmaceutical | Oil & Gas | Packaging
Flexographic | Coating | Mining
OXIDIZERS

Regenerative Thermal Oxidizer (RTO)

Designed for:
- Air Volumes from 2,000 to 100,000 m³/h
- Medium to High Solvent Concentrations
- Wide Range of Solvents

Technology Advantages:
- Adaptable for Small, Medium and Large Air Flows
- Wide range of VOC emissions to be treated
- Low Operating and Maintenance Cost
- High Thermal Efficiency
- Does Not Generate Any Waste
- Heat Recovery generated for External Processes

Technical Characteristics:
- Maximum solvent concentration: 11,000 mg/Nm³
- Solvent concentration for auto-thermal operation: 1.3-1.7 g/Nm³
- Operating temperature of the equipment: 750°C
- Maximum outlet concentration
- Long life ceramic media
- 200 mm internal isolation for energy saving
- Thermal Efficiency > 98%
OXIDIZERS

Regenerative Thermal Oxidizer (RTO)

Equipment Render
RTO Depuration Process

RTO DEPURATION PROCESS STEPS
ADSORPTION

RTO + Zeolite Rotor-concentrator

Designed for:
- Large air volumes containing small VOC concentration

Technology Advantages:
- Allows large volumes of air to be treated: up to 200,000 Nm3/h per each rotor-concentrator
- Low operating consumption
- Low gas and electricity consumption
- Low annual maintenance cost
- Lower implementation cost than other purification technologies

Technical Characteristics:
The Zeolite Rotor-Concentrator equipment is always installed along with a posterior oxidizer system, Regenerative Thermal Oxidizer RTO, to oxidize the flow of concentrated air previously sent from the concentrator. The aim is to send an air flow between 15 to 20 times lower than the initial volume to be treated with a sufficient VOC concentration for the purification equipment to be auto-thermal.
ADSORPTION

RTO + Zeolite Rotor-concentrator

Process Diagramme
Industrial Waste Incineration
Waste Incineration Technologies

Waste Incineration undergoes the strictest and more demanding controls, thus resulting in a safe and efficient solution for industrial waste management. Moreover, this technology also brings cost savings through waste self-management and waste-to-energy options.

Technologies:
- Static Incinerators
- Rotary Incinerators
- Incineration Plants

INDUSTRIES:
- Chemical | Petrochemical | Oil & Gas
- Pharmaceutical | Mining | Hospitals
- Airports | Waste management plants
- Farming and slaughterhouses

Industrial Applications:
- Solid & Liquid Waste
- Hazardous Waste
- NORM Waste
- Refining Residues
- Waste Water Plant Sludge
STATIC INCINERATION SYSTEMS: G-MODEL SERIES

Main Features:
- Static unit (low maintenance cost)
- Batch Load unit (adaptable to daily needs)
- 45kg/h; 150kg/h; 380 kg/h
- Two Incineration Chambers
- Full automatic operation cycle (doesn’t need specialized operators)
- Fulfils all the EU Environmental Standards
- Produced under ISO and CE Standards
- Very competitive prices

What kind of waste can be incinerated in a G Model?
- General Waste
- Hospital Waste
- Animal Carcasses and remaining
G-MODEL SERIES

Who can benefit from a G-Model Incineration System?

Isolated Communities
✓ To avoid dump residues and contaminate the surrounding nature

Hospitals and Clinics
✓ To spare money with the collecting companies
✓ To avoid spreading diseases while transporting the waste to a landfill

Ports and Airports
✓ To destroy organic residues brought from potentially contagious areas
✓ To destroy unauthorized imported foods or plants
✓ To destroy apprehended drugs or illegal medicines

Slaughterhouses
✓ To destroy carcasses positive to dangerous diseases: Tuberculosis, Foot and Mouth disease, etc.

Ministry of Agriculture
✓ There is a Portable version to provide quick response to disease outbreaks (rabies, bird flu…)

Investigation Laboratories
✓ To destroy dangerous contaminated material
ROTATING INCINERATION SYSTEMS: SK-MODEL SERIES

Main Features:
- Rotating Drum Unit
- Continuous operation
- 50kg/h to 2.000kg/h
- Two Incineration Chambers
- Automatic waste load
- Automatic ash removal
- Full automatic operation cycle
  (doesn’t need specialized operators)
- Fulfils all the EU Environmental Standards
- Produced under ISO and CE Standards

What kind of waste can be incinerated in an SK- Model?
- General Waste
- Hospital Waste (especially for bulk unpacked load)
- Powders and compact low grain waste
- Liquids, pastes and sludge
- Plastics and fabrics
SK-MODEL SERIES

Who can benefit from a SK-Model Incineration System?

**Hazardous Waste Management Companies**
✓ To avoid dump hazardous residues in the landfills

**Contaminated Water Treatment Plants**
✓ To destroy the remaining, most of the times grease rich, sludge

**Hazardous Liquids Management Companies**
✓ To destroy solvents remaining from industrial processes
✓ To destroy paints remaining from industrial processes
✓ To destroy varnishes remaining from industrial processes

**Oil Refineries**
✓ To destroy the remaining sludge after the distillation process

**Petrochemical conglomerates**
✓ To destroy end of the line products, by-products or contaminated products

**Environmental Remediation Companies**
✓ To clean contaminated soil from spilage or long term dump of contaminants
Services Offered
- Preventive Maintenance
- Reparation
- Spare Parts
- Upgrades / Revamping
- On-site Commissioning Training
- Online continuous monitoring unit
Projecte References:
Exhaust Air Treatment
### Project References | Pharmaceutical

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The image shows a large industrial installation with various pipes and equipment, indicating a pharmaceutical production setup. The technology used is highlighted as the Regenerative Thermal Oxidizer (RTO), which is typically employed for the efficient treatment of emissions from industrial processes, ensuring compliance with environmental standards.
<table>
<thead>
<tr>
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**Regenerative Thermal Oxidizer (RTO)**

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CUSTOMER NAME: Krka
PROJECT SIZE: 10,000 Nm3/h
INDUSTRY: Pharmaceutical
APPLICATION: Pharma Synthesis
LOCATION: Krsko, Slovenia
TECHNOLOGY USED: Regenerative Thermal Oxidizer (RTO) + 3 Scrubbers
INSTALLATION DATE: 2013
### Project References: Pharmaceutical

<table>
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![Regenerative Thermal Oxidizer (RTO)](image)
The Customer’s Technical Needs: After moving to new facilities in 2008, Heceygo decided to focus on improving the quality of their processes as well as reducing environmental impact, in particular VOC emissions. Heceygo was looking for a reliable supplier, who could manage the whole project, from the design, assembly and installation, to the start-up and maintenance service.

The Solution Installed: The equipment installed at Heceygo consists of a Zeolite Rotor-concentrator together with a Regenerative Thermal Oxidizer unit. The basic operating principle of the Zeolite Rotor-Concentrator equipment is the VOC abatement by adsorption process. The adsorption takes place using a porous material called Zeolite.

The Result Obtained: Thanks to Tecam Group’s environmental technology, it was possible to reduce the Volatile Organic Compound VOC emissions from Heceygo’s production site to levels below the legislation limits.
<table>
<thead>
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Regenerative Catalytic Oxidizer (RCO)

CUSTOMER NAME: Maier
PROJECT SIZE: 12,000 Nm3/h
INDUSTRY: Auxiliary Automotive
APPLICATION: Painting Booths
LOCATION: Gernika, Spain
TECHNOLOGY USED: Regenerative Catalytic Oxidizer (RCO)
INSTALLATION DATE: 2013
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<td>LOCATION:</td>
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<td>TECHNOLOGY USED:</td>
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CUSTOMER NAME: Plastic 7A
PROJECT SIZE: 90,000 Nm3/h
INDUSTRY: Auxiliary Automotive
APPLICATION: Painting application
LOCATION: La Pobla de Vallbona, Spain
TECHNOLOGY USED: Zeolite Rotor-centrator + Regenerative Thermal Oxidizer (RTO)
INSTALLATION DATE: 2016
Cederroth Distrex

21,000 Nm3/h

Consumer Goods

Painting application

Bigues i Riells, Spain

Regenerative Thermal Oxidizer (RTO)

2016
CUSTOMER NAME: Vellerino
PROJECT SIZE: 30,000 Nm3/h
INDUSTRY: Packaging
APPLICATION: Coating
LOCATION: Elche, Spain
TECHNOLOGY USED: Regenerative Thermal Oxidizer (RTO)
INSTALLATION DATE: 2014
Regenerative Thermal Oxidizer (RTO)

CUSTOMER NAME: Witte y Solá
PROJECT SIZE: 29,000 Nm³/h
INDUSTRY: Packaging
APPLICATION: Coating
LOCATION: Sant Fost de Campsentelles, Spain
TECHNOLOGY USED: Regenerative Thermal Oxidizer (RTO)
INSTALLATION DATE: 2014
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CUSTOMER NAME: Eskabe
PROJECT SIZE: 21,000 Nm3/h
INDUSTRY: Thermal & Boilers
APPLICATION: Painting Booths
LOCATION: Mar del Plata, Argentina
TECHNOLOGY USED: Regenerative Thermal Oxidizer (RTO)
INSTALLATION DATE: 2015
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Regenerative Thermal Oxidizer (RTO)

CUSTOMER NAME: Hempel Painting
PROJECT SIZE: 6,000 Nm3/h
INDUSTRY: Paint Manufacturing
APPLICATION: Paint Manufacturing
LOCATION: Kuwait City, Kuwait
TECHNOLOGY USED: Regenerative Thermal Oxidizer (RTO) + Double Bag House Filter
INSTALLATION DATE: 2017
Regenerative Thermal Oxidizer (RTO)

CUSTOMER NAME: JAM Petrochemical Company
PROJECT SIZE: 67,000 Nm3/h
INDUSTRY: Oil & Gas
APPLICATION: ABS & Rubbers Plant
LOCATION: Assaluyeh, Iran
TECHNOLOGY USED: Scrubber + Regenerative Thermal Oxidizer (RTO)
INSTALLATION DATE: 2018 (In progress)
Projecte References:
Industrial Waste Incineration
WASTE INCINERATION

Ruwais, UAE – 2015 (in progress)

Incineration Capacity: 500 kg/hour

NORM Waste Incineration system + Gas treatment, composed of:

- Naturally Occurring Radioactive Material (NORM) incineration, with rotating kiln
- Different compounds combination: Oil, scale and sludge waste incineration from oil refinery process
- Gases dry treatment with DeNOx SCR (Selective Catalytic Reduction)
- Heat exchanger
- Chemical dosification (Bicarbonate and Active Carbon)
- Double bag filter and HEPA filter
- System of recovery and storage of slag and ashes
- The Average Heat Value is 8.500 kcal/kg and the unit operates at negative pressure
- The system was designed to operate in a flexible way, which operates in different working ranges depending on the variable combination of the three types of waste present (Oil, scale and sludge)
WASTE INCINERATION

Cáceres, Spain – 2015

Incineration Capacity: 200 kg/hour

Hazardous Waste Incineration system, composed of:

- Medical waste incineration system, with static kiln for batches of 1tn
- Boiler for the production of 1000 kg/h/v of saturated steam at 4 bar
- Complete gases system treatment (Sodium Bicarbonate and Active Carbon)
- Designed to destroy 200 kg/h of hazardous waste
- The Average Heat Value is 3.000kcal/kg and the unit operates at negative pressure
- Due to the potential variation of composition of the waste, the system was designed to operate in a flexible way based in the feed-back information from the CEM unit. All the “parts” can modulate, from the burners to the injectors or variable drive frequency to the exhaust fan.
WASTE INCINERATION

Panama Airport – 2016

Incineration Capacity: 700 kg/hour

Hazardous Waste Incineration system, composed of:

- Hazardous waste incineration system, with static kiln
- Flue Gas treatment
- Complete gases system treatment (Sodium Bicarbonate and Active Carbon)
- Waste to energy recovery system
- Designed to destroy 700 kg/h of hazardous waste
- The Low Heat Value (LHV) is 1500kcal/kg
WASTE INCINERATION

Torres Vedras, Portugal

Incineration Capacity: 1.000 kg/hour

Incineration System for Hazardous/Hospital/Medical Waste (class 3 & 4), Pharmaceutical residues, Liquids from hemodialysis clinics, etc.

Composed of:
- Rotating kiln
- Screw conveyor to inject sludge-like substances: creams, pomades, medicated shampoos, medical active principles, etc.
- Boiler producing 2.2 Ton/hour of steam
- Steam producing 400 kW/hour of electricity
- Chemical dosing (urea solution, bicarbonate, active carbon)
- Bag filter
- The Average Heat Value is 3,000 kcal/kg
WASTE INCINERATION

SAFA ENVIRONMENTAL Co.
Riyadh – Saudi Arabia (in progress)

Incineration Capacity: 1.000 kg/hour

Rotary Kiln system + Flue Gas treatment and Heat Recovery with Electricity Generation

- Designed to destroy 1.000 kg/h of Hospital waste.
- Gases dry treatment with DeNOx SCR (Selective Catalytic Reduction)
- The Average Heat Value is 6.500kcal/kg and the unit operates at negative pressure.
- Boiler is working 2,2 Bar(g) and 217°C
- Steam producing 500 kW/hour of electricity by Condensing Steam Turbine
- System of recovery and storage of slag and ashes
- Complete gases system treatment (Sodium Bicarbonate and Active Carbon)
WASTE INCINERATION

PROMINCOM    SK Stakonstruksiya Rusia, (In progress)

Incineration Capacity: 95 kg/hour

Mobile Incinerator System for Pharmaceutical residues, Liquids and Solid waste.

End User: GAZPROM

Composed of:
- G-6 Static Incinerator
- Slag Screw conveyor extractor.
- Boiler producing Hot Water for District Heating in the plant
- Chemical dosing (bicarbonate, active carbon)
- Bag filter
- The Average Heat Value is 3,000 kcal/kg
WHY TECAM GROUP

Competitive Advantages:

- **Tailor-made Solutions**  
  Environmental technology solutions for all industries, adapting the project 100% to the technical requirements of customers around the Globe.

- **Turn-key Projects**  
  Turn-key projects, from the engineering and designing phases to the manufacturing, installation, start-up and maintenance of the equipment. Hence, we can provide the full integrated package.

- **Competitive Cost for Customer**  
  Tecam Group technology equipment is offered in a competitive cost for customers, which is an important advantage for companies nowadays.

- **Long-term Business Strategy**  
  Maintaining sustainable growth in the environmental technology business, establishing long-term partnership with leading international customers, and expanding our business to emerging markets with growing opportunities for environmental technologies.

- **International Offices & Experience**  
  Local offices in Spain, Russia, Iran, China and Chile